

# Frequency Mixer

# ZFM-4+

## Typical Performance Data

RF (MHz)	LO (MHz)	CONVERSION LOSS (dB)			LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
		@LO (dBm)				@LO (dBm)			@LO (dBm)		
		+4	+7	+10		+4	+7	+10	+4	+7	+10
5.0	35.0	7.39	7.08	6.85	5.0	64.00	67.00	66.97	64.00	62.10	59.80
20.0	50.0	7.19	6.84	6.61	20.0	64.00	67.00	62.16	64.00	59.11	57.53
50.0	80.0	6.97	6.64	6.45	50.0	52.06	50.64	50.62	51.15	49.95	48.63
100.0	70.0	6.76	6.48	6.32	100.0	45.63	44.54	44.61	45.08	43.90	42.67
138.4	108.4	6.81	6.51	6.38	138.4	39.91	38.97	39.28	39.15	38.26	37.49
227.3	197.3	6.85	6.59	6.41	227.3	38.18	37.28	37.71	37.26	36.56	36.05
271.8	241.8	6.66	6.44	6.26	271.8	35.39	34.49	34.87	34.59	34.10	33.61
360.7	330.7	6.68	6.47	6.34	360.7	33.51	32.40	32.45	33.15	32.75	31.86
449.6	419.6	6.84	6.57	6.40	449.6	33.30	31.70	31.37	31.47	31.16	30.26
538.6	508.6	6.69	6.45	6.29	538.6	33.34	31.48	30.96	31.22	30.87	29.94
583.0	553.0	6.76	6.54	6.40	583.0	31.94	30.37	29.93	31.03	30.53	29.24
672.0	642.0	7.12	6.82	6.56	672.0	30.92	29.62	29.36	29.85	29.00	27.48
760.9	730.9	7.16	6.83	6.56	760.9	30.46	29.45	29.56	28.21	27.36	25.98
849.8	819.8	7.34	6.86	6.54	849.8	30.45	29.60	29.84	27.33	26.76	25.43
894.3	864.3	7.67	7.01	6.57	894.3	30.77	30.37	30.69	24.95	25.36	24.55
983.2	953.2	7.85	7.24	6.72	983.2	30.24	29.78	30.11	23.37	23.67	22.94
1027.7	997.7	8.00	7.43	6.95	1027.7	29.82	29.36	30.17	22.38	22.34	21.66
1116.6	1086.6	8.05	7.58	7.27	1116.6	28.97	28.75	29.77	21.30	21.27	20.25
1200.0	1170.0	8.01	7.70	7.49	1200.0	28.49	28.39	29.34	20.82	20.82	19.72
1250.0	1220.0	8.06	7.80	7.68	1250.0	27.96	28.05	29.00	20.23	20.19	19.35

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## Typical Performance Data

RF/LO (MHz)	RF VSWR (:1)			LO VSWR (:1)			IF (MHz)	IF VSWR (:1)			LO/RF (MHz)	max. DC output (mV)	DC Offset (mV)
	@LO (dBm)			@LO (dBm)				@LO (dBm)			@LO (dBm)		
	+4	+7	+10	+4	+7	+10		+4	+7	+10	+7		
5.0	1.46	1.54	1.62	2.01	3.00	4.40	5.0	1.35	1.12	1.01	5.00	218.1	0.00
10.0	1.34	1.42	1.51	1.93	2.83	4.06	10.0	1.35	1.12	1.01	10.00	219.4	0.00
50.0	1.25	1.34	1.44	1.90	2.85	4.06	50.0	1.37	1.13	1.03	50.00	216.5	0.00
100.0	1.21	1.31	1.40	1.84	2.72	3.77	100.0	1.38	1.15	1.05	100.00	219.7	0.02
200.0	1.18	1.26	1.34	1.76	2.49	3.46	200.0	1.44	1.22	1.12	120.00	223.8	0.06
212.5	1.17	1.25	1.33	1.76	2.44	3.41	212.5	1.44	1.22	1.12	185.73	226.9	0.24
337.0	1.14	1.20	1.27	1.70	2.33	3.21	337.0	1.59	1.36	1.26	230.91	226.8	0.41
420.0	1.13	1.17	1.22	1.68	2.23	3.14	420.0	1.71	1.47	1.37	321.27	233.3	0.34
500.0	1.12	1.13	1.17	1.66	2.19	2.98	500.0	1.82	1.56	1.46	411.64	207.8	0.06
544.0	1.13	1.12	1.15	1.67	2.17	2.87	544.0	1.87	1.61	1.52	500.00	211.1	0.34
627.5	1.14	1.12	1.12	1.64	2.14	2.75	627.5	1.93	1.66	1.61	547.18	219.1	0.10
710.5	1.17	1.13	1.12	1.61	2.05	2.68	710.5	1.89	1.64	1.59	637.55	217.0	-0.76
793.5	1.20	1.16	1.15	1.64	2.02	2.69	793.5	1.93	1.69	1.66	727.91	198.4	-0.04
835.0	1.22	1.18	1.17	1.67	2.05	2.72	835.0	1.95	1.69	1.66	818.28	191.8	0.63
959.5	1.27	1.22	1.23	1.75	2.12	2.71	959.5	1.82	1.60	1.55	863.46	189.3	0.69
1000.0	1.30	1.24	1.26	1.79	2.11	2.76	1000.0	1.75	1.54	1.49	953.82	174.3	0.44
1084.0	1.38	1.31	1.36	1.82	2.17	2.78	1084.0	1.58	1.39	1.33	1000.00	169.1	0.67
1167.0	1.53	1.43	1.52	1.96	2.24	2.92	1167.0	1.39	1.23	1.17	1100.00	167.3	0.89
1208.5	1.65	1.52	1.63	2.01	2.32	2.83	1208.5	1.29	1.15	1.10	1200.00	156.9	-2.15
1250.0	1.79	1.62	1.75	2.14	2.36	2.99	1250.0	1.20	1.07	1.08	1250.00	152.8	-4.81

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